

VOL. 2 INDEX

VOL. 2 INDEX (CONT.)



[illegible][illegible]

	PLAN
	REFERENCE
	NO.
	SHEET
	OF
	SHEETS

NOTE: ALL SHEET REFERENCES, FIRST NOS. OF STRUCTURE CODE DESIGNATIONS AND MATCH LINE SHEET REFERENCES, ETC., THROUGHOUT THE PLANS, REFER TO THE ENTRY IN THE PLAN REFERENCE NUMBER BOX.

[illegible]


PROJECT LICENSED PROFESSIONAL CERTIFICATES

<div></div> <div>Pedro Reyes</div> <div>Jul 5, 2023</div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>	<div><div>Greg Banks (Jul 5, 2023 08:53 PDT)</div></div> <div>Greg Banks</div> <div>Jul 5, 2023</div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>	<div></div> <div></div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>	<div></div> <div></div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>
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NOTES:

THIS PLAN SET WAS DEVELOPED ELECTRONICALLY UNDER THE DIRECT SUPERVISION OF THE LICENSED PROFESSIONALS THAT HAVE AFFIXED THEIR SIGNATURE TO THIS PAGE.

THIS SHEET SERVES AS THE CERTIFICATION BY THE ABOVE LICENSED PROFESSIONALS OF ALL SHEETS IN THIS PLAN SET WHERE THEIR STAMPS AND SIGNATURES APPEAR.

FILE NAME G:\444304\04 - Design\02 - Design Projects\ID00527K - I-5 Dike Access Road Bridge - Bridge Deck and Expansion Joints\20-CADD-Plans\20-11 PS&E Sheets\XL6568 Plans.dgn										<div></div> <div>Washington State Department of Transportation</div>		I-5 DIKE ACCESS ROAD BRIDGE BRIDGE DECK AND EXPANSION JOINTS		PLAN REF NO	
CT1															
TIME 5:38:30 PM												SHEET 6 OF 30 SHEETS			
DATE 6/21/2023															
PLOTTED BY MinnicN															
DESIGNED BY N. MINNICK															
ENTERED BY															
CHECKED BY															
PROJ. ENGR. P. REYES															
REGIONAL ADM. C. FRANCIS		REVISION		DATE		BY		FED.AID PROJ.NO. 0051(321)		LOCATION NO. XL6568					
										DATE					
										P.E. STAMP BOX					
										DATE					
										P.E. STAMP BOX					

LEGEND

EXISTING EDGE LINE

EXISTING MEDIAN EDGE LINE

EXISTING OUTSIDE EDGE LINE

EXISTING LANE LINE

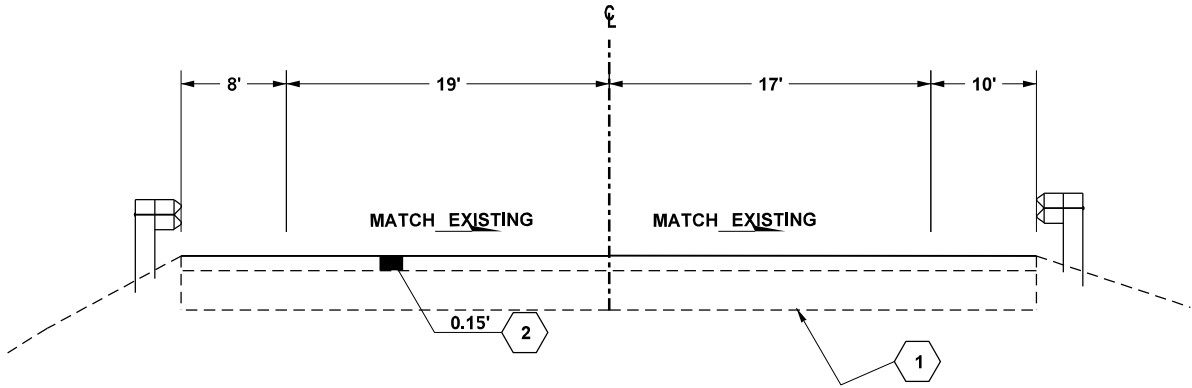
CURB OF BRIDGE

TEMPORARY BARRIER

GUARDRAIL

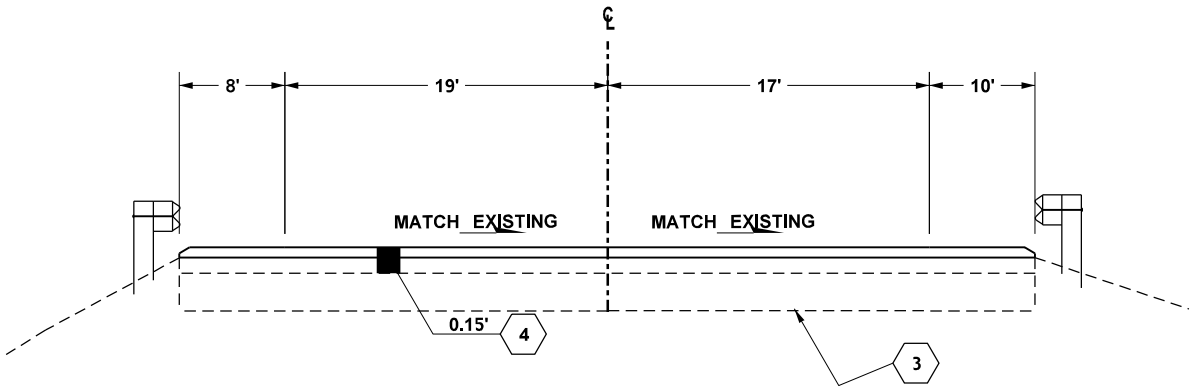
TEMPORARY LANE LINES

PAVING SECTION



ROADWAY SECTION A-1

100' FROM BRIDGE EXPANTION JOINT
TO
50' FROM BRIDGE EXPANSION JOINT

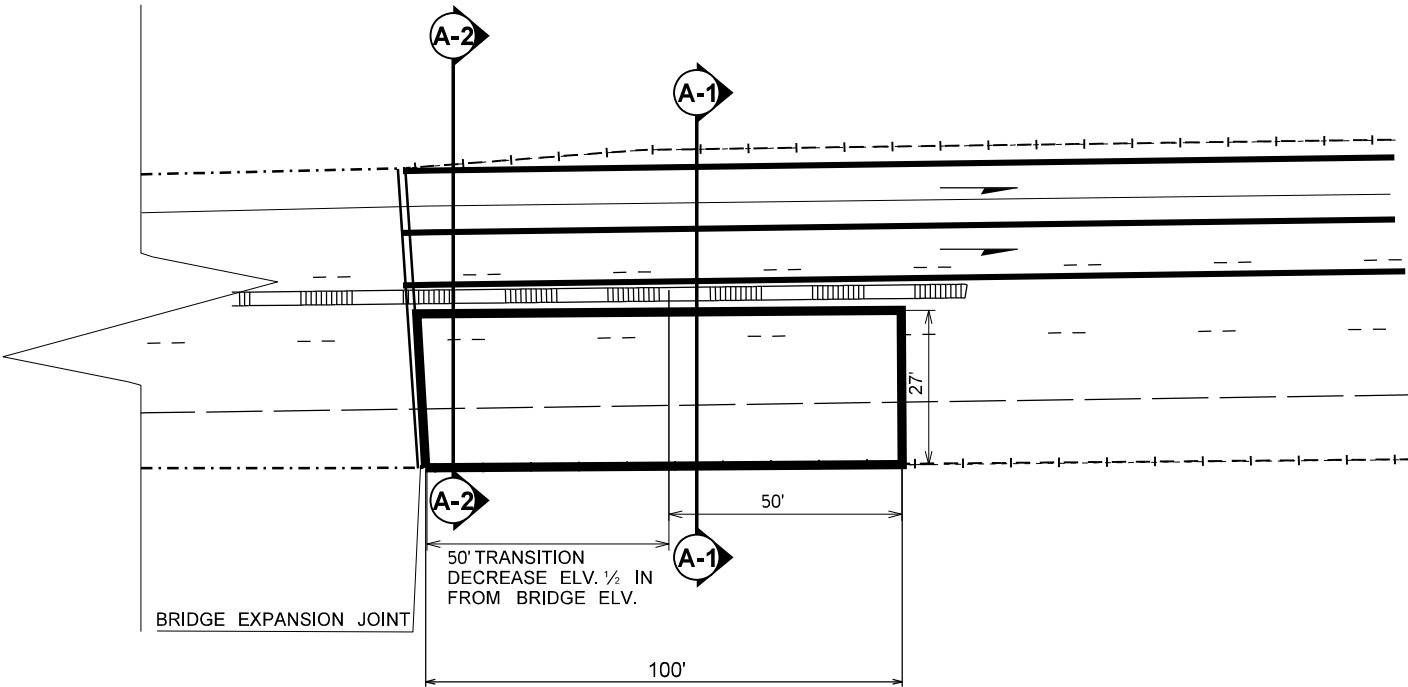
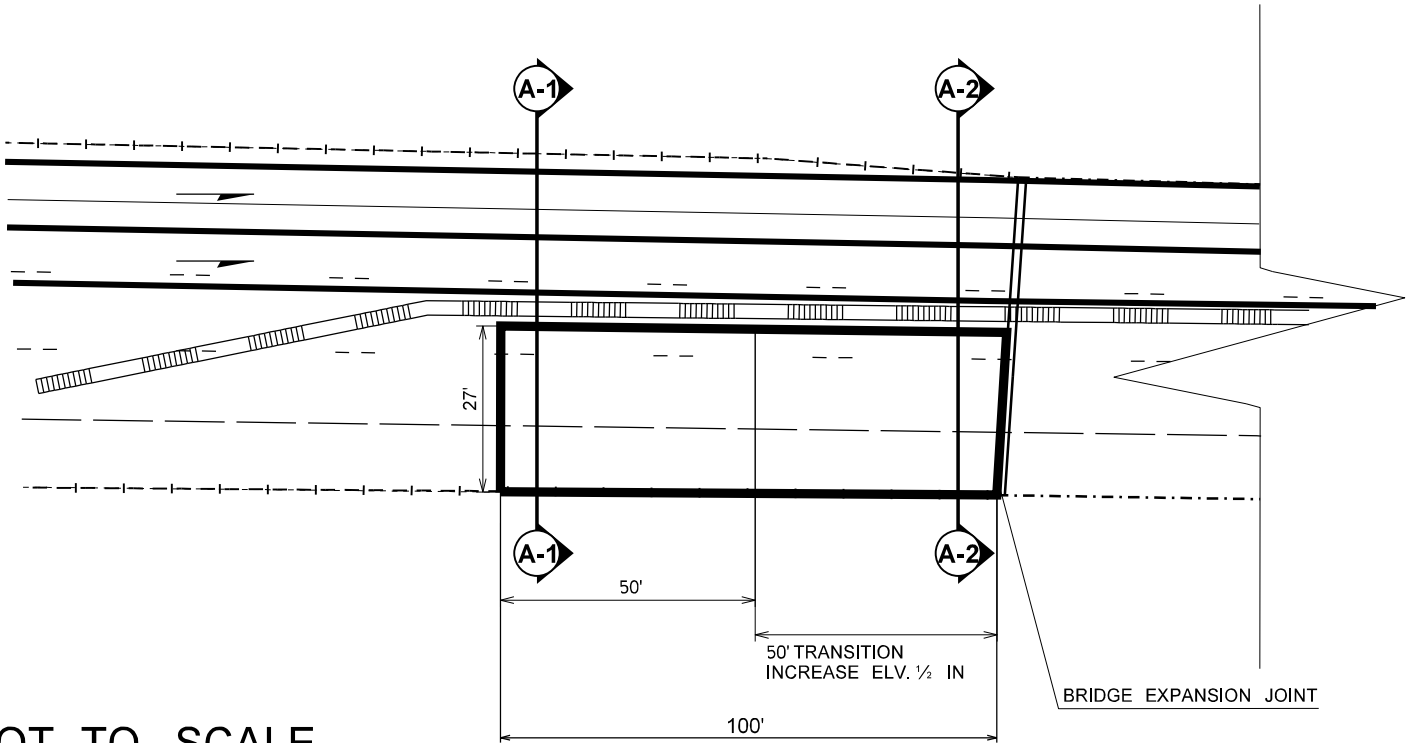


ROADWAY SECTION A-2

BRIDGE EXPANSION JOINT
TO
50' FROM BRIDGE EXPANSION JOINT

- 1 SEE ROADWAY SECTION A ON SHEET PV3 FOR DETAILS OF THE PROFILE GRIND
- 2 HMA CL ¾ IN. PG 58V-22
UP TO EXISTING ROADWAY ELEVATION

- 3 SEE ROADWAY SECTION A ON SHEET PV3 FOR DETAILS OF THE PROFILE GRIND
- 4 HMA CL ¾ IN. PG 58V-22
0.15' LIFT
MATCH NEW BRIDGE JOINT ELEVATION



NOT TO SCALE

FILE NAME				G:\444304\04 - Design\02 - Design Projects\I00527K - I-5 Dike Access Road Bridge - Bridge Deck and Expansion Joints\20-CADD-Plans\20-11 PS&E Sheets\XL6568 - PLAN SHEETS.dgn					
TIME		7:11:26 AM		REGION NO.		STATE		FED.AID PROJ.NO.	
DATE		6/30/2023		10		WASH		0051(321)	
PLOTTED BY		MinnicN		JOB NUMBER		25x302		LOCATION NO.	
DESIGNED BY		N. MINNICK		CONTRACT NO.				XL6568	
ENTERED BY									
CHECKED BY									
PROJ. ENGR.		P. REYES							
REGIONAL ADM.		C. FRANCIS							
REVISION				DATE		BY			

LEGEND

EXISTING EDGE LINE

EXISTING MEDIAN EDGE LINE

EXISTING OUTSIDE EDGE LINE

EXISTING LANE LINE

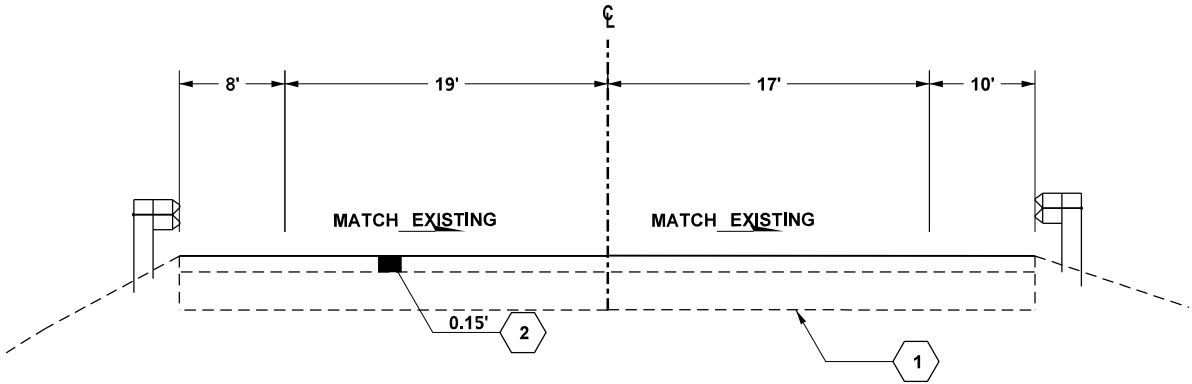
CURB OF BRIDGE

TEMPORARY BARRIER

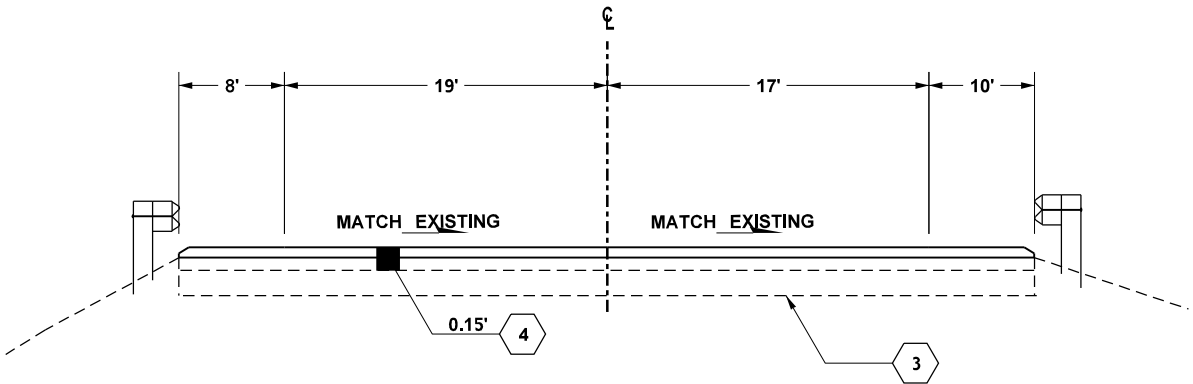
GUARDRAIL

TEMP LANE LINES

PAVING SECTION



ROADWAY SECTION B-1
100' FROM BRIDGE EXPANTION JOINT
TO
50' FROM BRIDGE EXPANSION JOINT



ROADWAY SECTION B-2
BRIDGE EXPANSION JOINT
TO
50' FROM BRIDGE EXPANSION JOINT

- 1

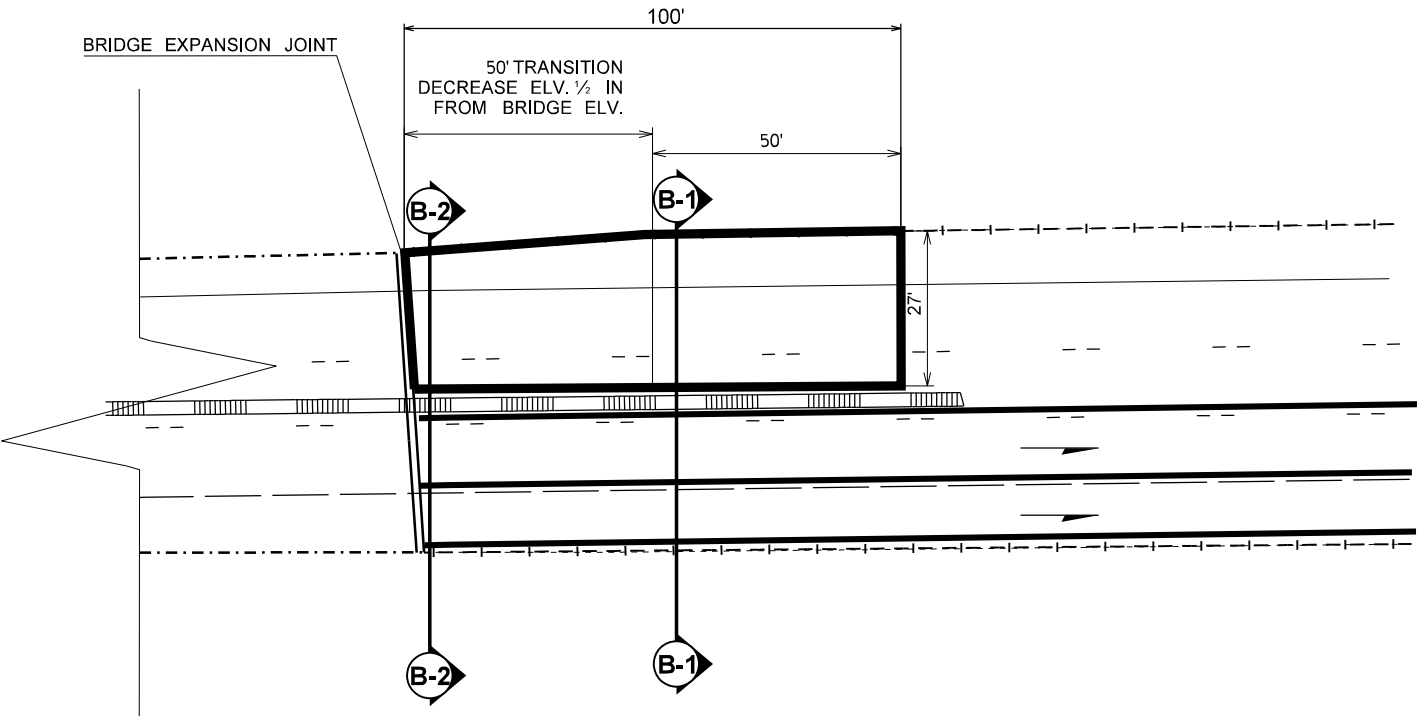
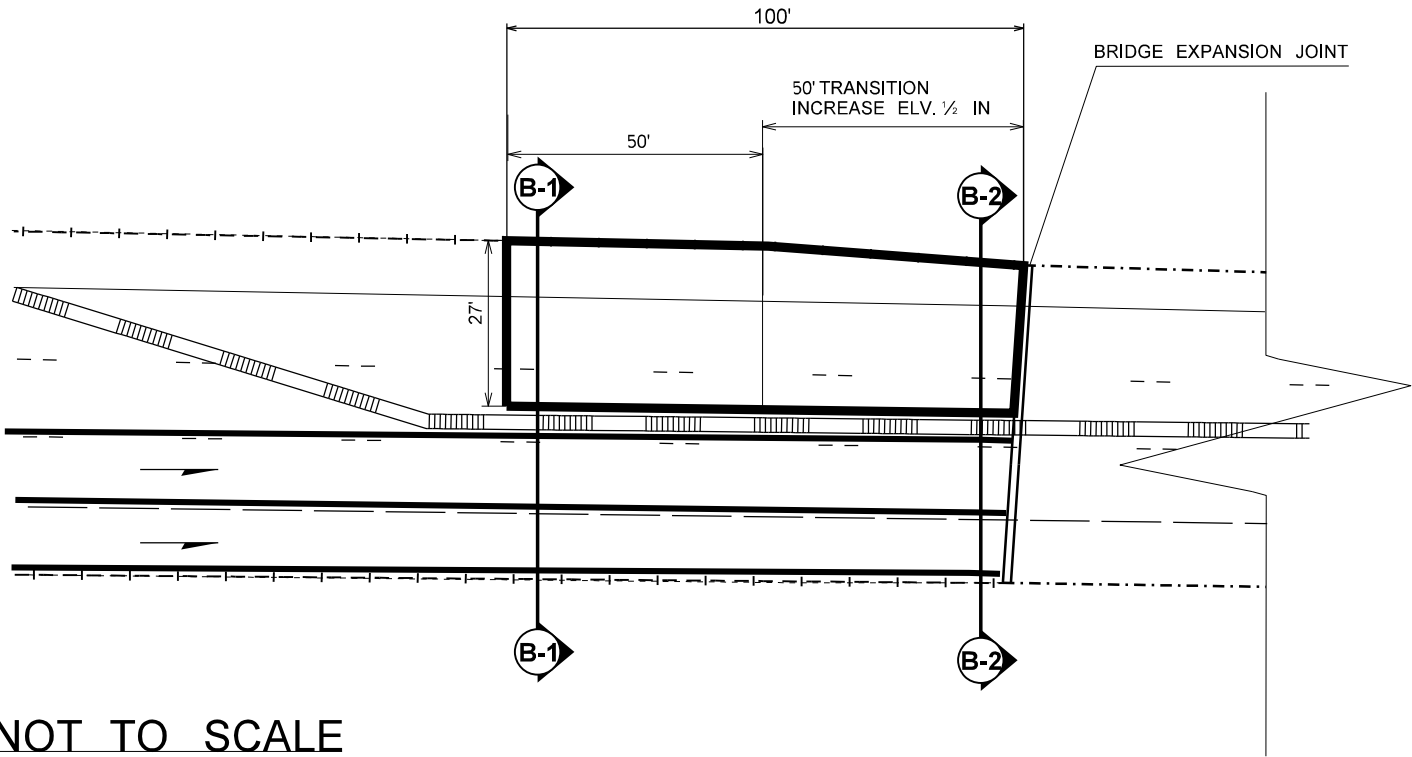
GRIND 0.15' FROM EXISTING ROADWAY
- 2

HMA CL ¾ IN. PG 58V-22
UP TO EXISTING ROADWAY ELEVATION

- 3

GRIND TRANSITION SECTION.
50' FROM BRIDGE EXPANSION JOINT START GRIND DEPTH AT 0.15'
DECREASE GRIND DEPTH BY 1/2" AT BRIDGE EXPANSION JOIN
- 4

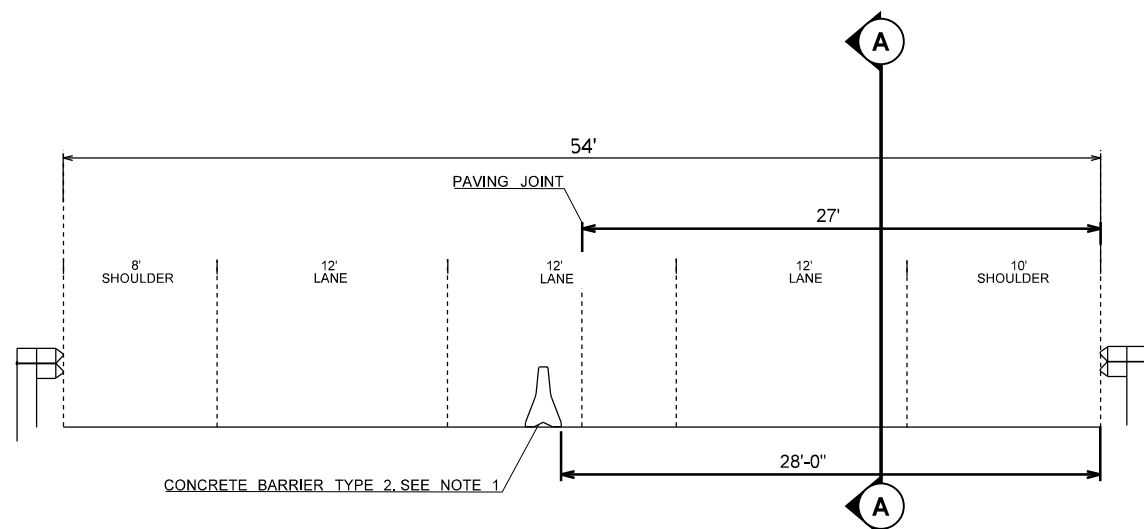
HMA CL ¾ IN. PG 58V-22
0.15' LIFT
MATCH NEW BRIDGE JOINT ELEVATION



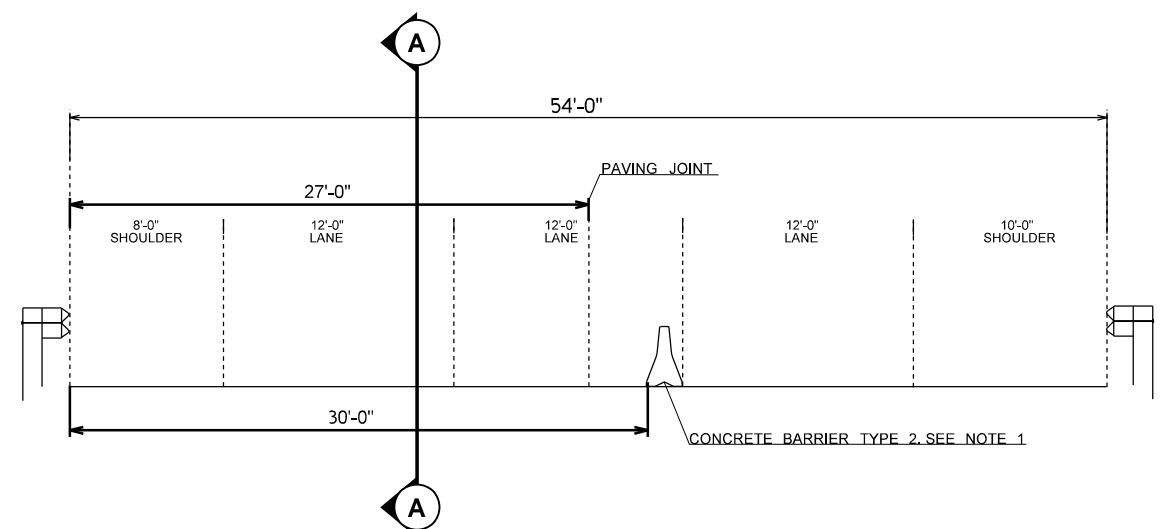
NOT TO SCALE

FILE NAMEG:\444304\04 - Design\02 - Design Projects\D00527K - I-5 Dike Access Road Bridge - Bridge Deck and Expansion Joints\20-CADD-Plans\20-11 PS&E				Sheets\11-0000 PLAN SHEETS.dgn				<div><div></div><div>Washington State Department of Transportation</div></div>		I-5 DIKE ACCESS ROAD BRIDGE BRIDGE DECK AND EXPANSION JOINTS		PLAN REF NO PV2
TIME7:11:42 AM				REGION NO.10	STATEWASH	FED.AID PROJ.NO. 0051(321)						SHEET 8 OF 30 SHEETS
DATE6/30/2023				JOB NUMBER25x302		LOCATION NO. XL6568		STAGE B PAVING PLANS				
PLOTTED BYMinnicN				CONTRACT NO.								
DESIGNED BYN. MINNICK												
ENTERED BY												
CHECKED BY												
PROJ. ENGR. P. REYES												
REGIONAL ADM. C. FRANCIS												
	REVISION		DATE	BY								

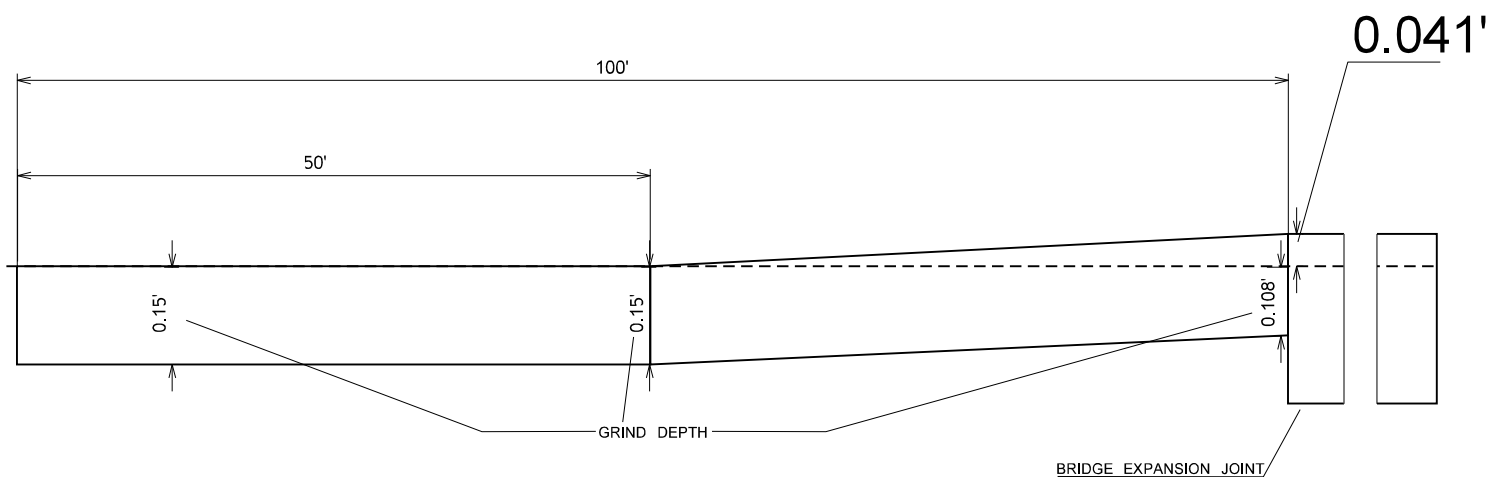
ROADWAY SECTIONS FOR LAYOUT OF HMA PAVING



STAGE A LOOKING SOUTHBOUND



STAGE B LOOKING SOUTHBOUND



ROADWAY SECTION A

NOT TO SCALE

- NOTES:
- 1. TEMPORARY CONCRETE BARRIER TYPE 2 SHALL BE ANCHORED WITH A TYPE 1 OR TYPE 3 ANCHOR. SEE STD. PLN. K-80.35

FILE NAME				G:\444304\04 - Design\02 - Design Projects\ID00527K - I-5 Dike Access Road Bridge - Bridge Deck and Expansion Joints\20-CADD-Plans\20-11 PS&E Sheets\XL6568 PLAN SHEETS.dgn					
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DATE		6/30/2023		10		WASH		0051(321)	
PLOTTED BY		MinnicN		JOB NUMBER					
DESIGNED BY		N. MINNICK		25x302					
ENTERED BY				CONTRACT NO.				LOCATION NO.	
CHECKED BY								XL6568	
PROJ. ENGR.		P. REYES							
REGIONAL ADM.		C. FRANCIS		REVISION		DATE		BY	

LEGEND

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- EXISTING EDGE LINE
EXISTING MEDIAN EDGE LINE
EXISTING OUTSIDE EDGE LINE
EXISTING LANE LINE
CURB OF BRIDGE
TEMPORARY BARRIER
GUARDRAIL

NOTES:

1. BEAM GUARDRAIL TYPE 31 TO BEAM GUARDRAIL TYPE 1 ADAPTOR. SEE STANDARD PLAN C-25.80-05
2. FOR GUARDRAIL CONNECTION TO THE BRIDGE USE D CONNECTION OR F CONNECTION DEPENDING ON DIRECTION OF TRAFFIC IN STANDARD PLAN C-24.10-03. ALSO AN ADAPTER PLATE IN STANDARD PLAN C-24.15-00 WILL BE NEEDED TO MAKE THE CONNECTION.
3. CASE 2 WILL BE USED FOR BEAM GUARDRAIL POST INSTALLATION.

EXISTING BEAM GUARDRAIL TYPE 1

NEW BEAM GUARDRAIL TYPE 31

25'
TRANSITION TO
BEAM GUARDRAIL
TYPE 31
SEE NOTE 1

25'
TRANSITION TO
BEAM GUARDRAIL
TYPE 31
SEE NOTE 1

SEE NOTE 2

SEE NOTE 2

BRIDGE EXPANSION JOINT



EXISTING BEAM GUARDRAIL TYPE 1

BEAM GUARDRAIL TYPE 31

100'

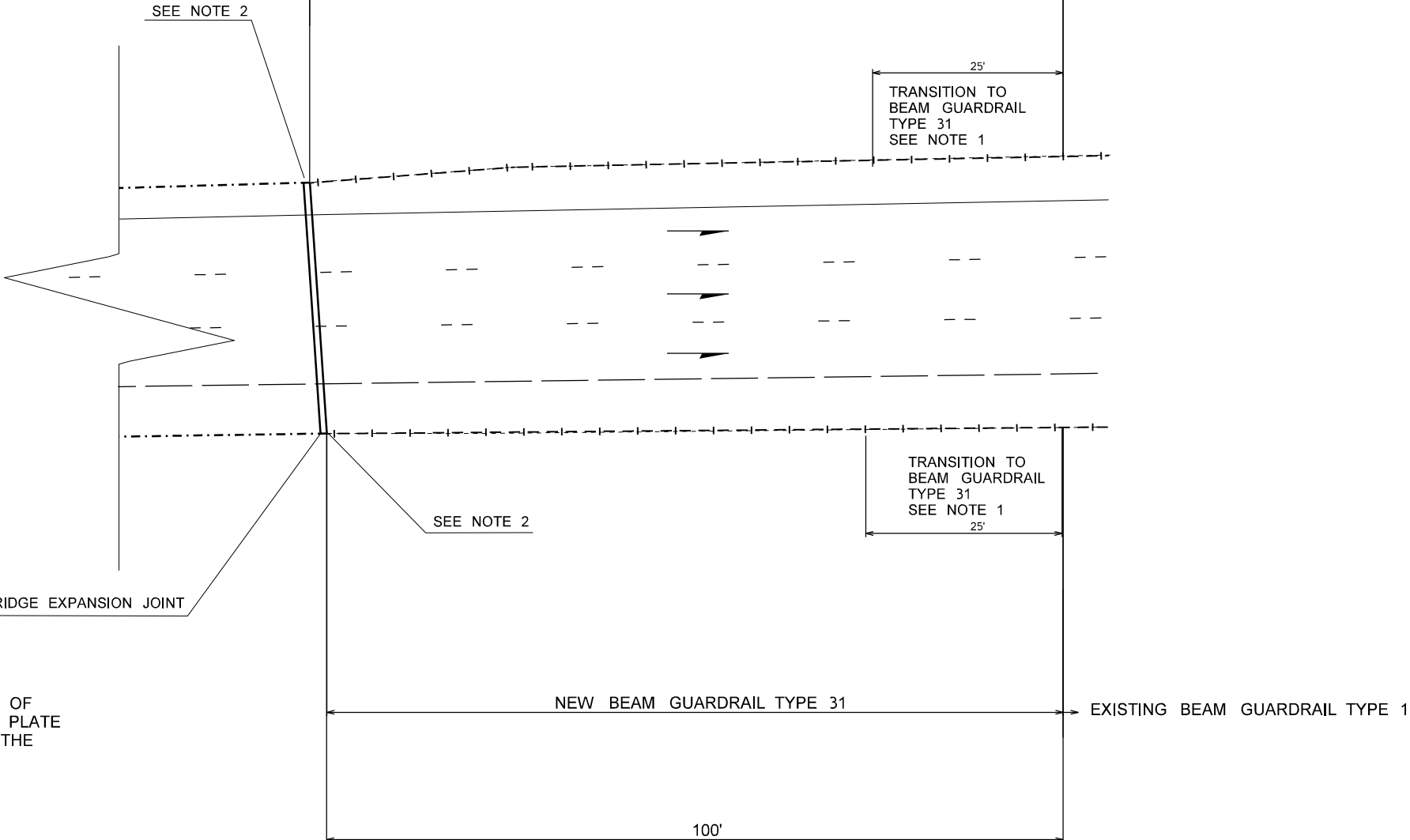
100'

NOT TO SCALE

FILE NAMEG:\444304\04 - Design\02 - Design Projects\ID00527K - I-5 Dike Access Road Bridge - Bridge Deck and Expansion Joints\20-CADD-Plans\20-11 PS&E Sheets\XL6568 PLAN SHEETS.dgn												
TIME	7:11:51 AM				REGION NO.	STATE	FED.AID PROJ.NO.				I-5 DIKE ACCESS ROAD BRIDGE BRIDGE DECK AND EXPANSION JOINTS	PLAN REF NO
DATE	6/30/2023				10	WASH	0051(321)					GR1
PLOTTED BY	MinnicN				JOB NUMBER							SHEET
DESIGNED BY	N. MINNICK				25x302							10
ENTERED BY					CONTRACT NO.		LOCATION NO.					OF
CHECKED BY							XL6568					30
PROJ. ENGR.	P. REYES											SHEETS
REGIONAL ADM.	C. FRANCIS				REVISION	DATE	BY				GUARDRAIL PLANS	

LEGEND

- | | |
|-----------|----------------------------|
| ----- | EXISTING EDGE LINE |
| ===== | EXISTING MEDIAN EDGE LINE |
| ----- | EXISTING OUTSIDE EDGE LINE |
| -- -- -- | EXISTING LANE LINE |
| -.-.-.-.- | CURB OF BRIDGE |
| ===== | TEMPORARY BARRIER |
| ===== | GUARDRAIL |



NOTES

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NOT TO SCALE

FILE NAME G:\444304\04 - Design\02 - Design Projects\000527K - I-5 Dike Access Road Bridge - Bridge Deck and Expansion Joints\20-CADD-Plans\20-11 PS&E Sheets\XL6568-PLAN SHEETS.dgn									
TIME 7:12:00 AM					REGION NO.	STATE	FED.AID PROJ.NO.		
DATE 6/30/2023					10	WASH	0051(321)		
PLOTTED BY MinnicN					JOB NUMBER				
DESIGNED BY N. MINNICK					25x302				
ENTERED BY					CONTRACT NO.		LOCATION NO.		
CHECKED BY							XL6568		
PROJ. ENGR. P. REYES							DATE		
REGIONAL ADM. C. FRANCIS			REVISION	DATE	BY			P.E. STAMP BOX	DATE
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1-5





PLAN

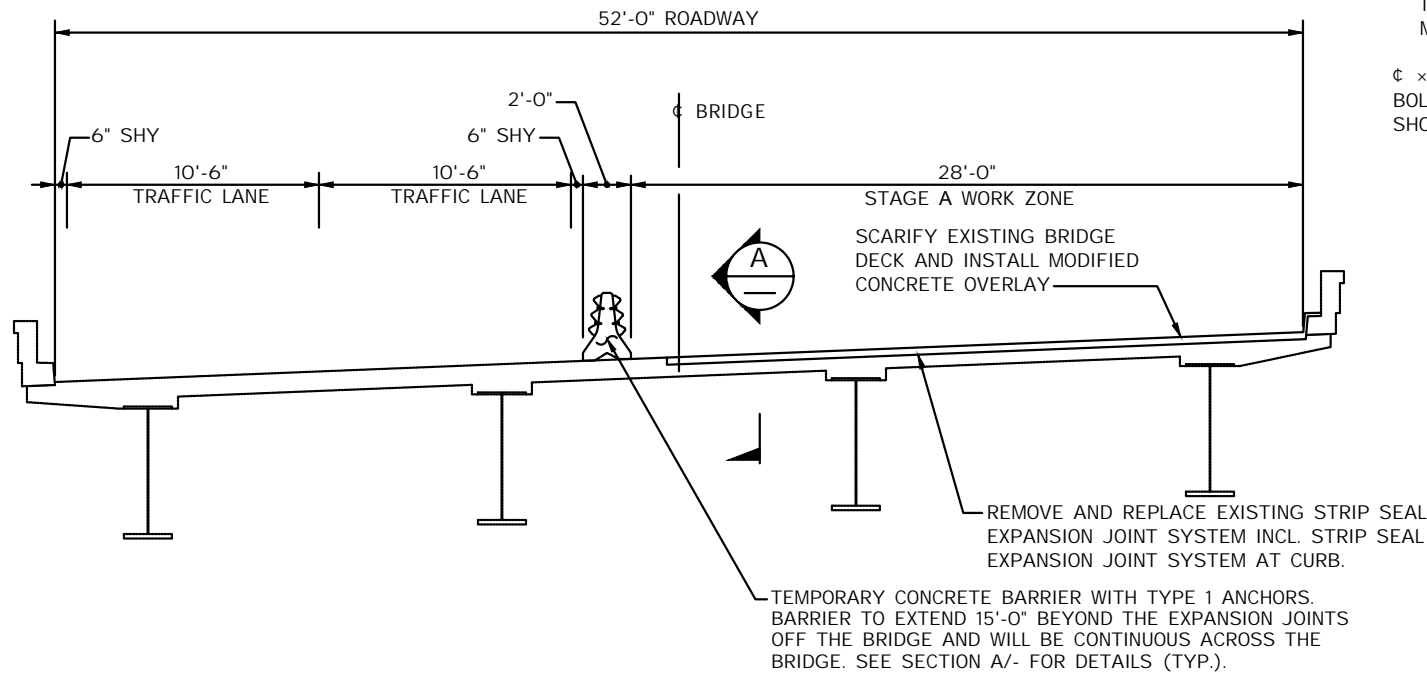


1. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION - DATED 2023.
2. THE MODIFICATIONS TO THIS STRUCTURE HAVE BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS - NINTH EDITION, 2020 AMENDMENTS.
3. EXISTING FEATURES, STATIONING AND DIMENSIONS ARE BASED ON INSPECTION REPORTS AND AS-BUILT PLANS. ALL DIMENSIONS NOTED SHALL BE FIELD MEASURED BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS AND PROCEEDING WITH CONSTRUCTION.
4. A SUGGESTED CONSTRUCTION SEQUENCE AND TRAFFIC STAGING SCHEME IS SHOWN ON BRIDGE SHEET NO. B2. CONTRACTOR SHALL SUBMIT ANY PROPOSED CHANGES TO THIS SCHEME TO THE ENGINEER FOR APPROVAL.

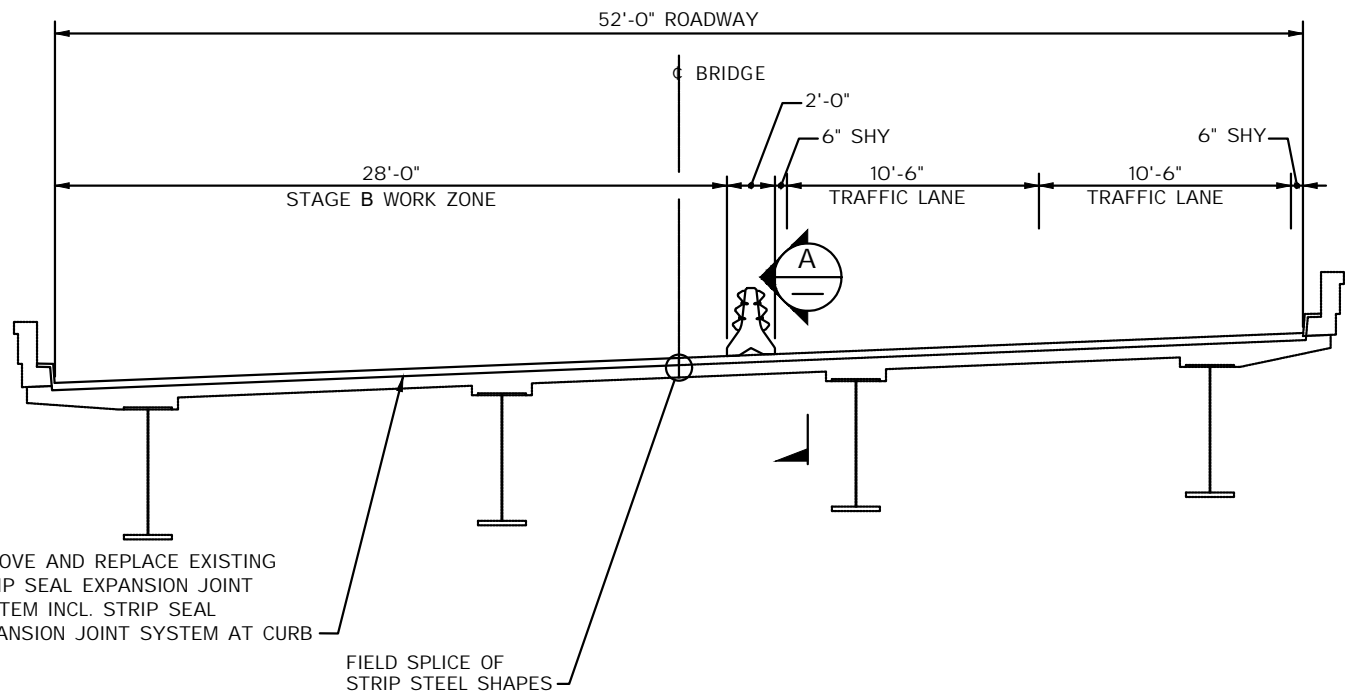
SEE SHEET CT1	LAYOUT
---------------	--------

FILE NAME BR_5-104W.DWG				REGION NO.	STATE			SEE SHEET CT1 DATE	SEE SHEET CT1 DATE	P.E. STAMP BOX	P.E. STAMP BOX	I-5 DIKE ACCESS ROAD BRIDGE BRIDGE DECK AND EXPANSION JOINTS I-5 OVER BNSF AND DIKE ROAD BR NO. 5/104W LAYOUT	PLAN REF NO. B1	SHEET 12 OF 30 SHEETS
BRIDGE DES. ENG.	A. LELAND			10	WASH									
BRIDGE PROJ. ENG.	N. RODDA			JOB NUMBER										
SUPERVISOR	-			25x302										
DESIGNED BY	M. BARBER			CONTRACT NO.										
CHECKED BY	K. HJORTESET													
ENTERED BY	P. LAVOCHIN													
PRELIM. PLAN BY	-													
ARCH. / SPEC.	-	REVISION		DATE	BY									
PLOT DATE: 6/30/23 PLOT TIME: 11:13 AM PLOTTED BY: USPL67544@FILE PATH: R:\USED\W100\PROJECT\2022\30902269- WSDOT BSO STAFF AUGMENTATION\30902269.Q01 - BRIDGE 5_104W DECK EXPANSION\CADD\SHEETS														

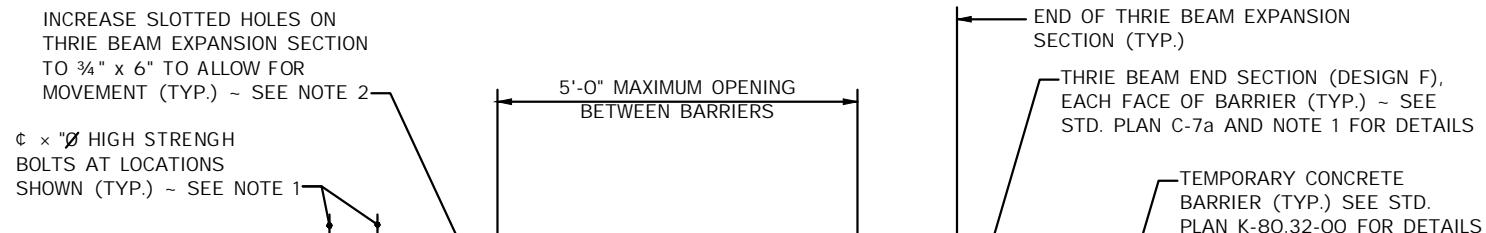
SR I-5
BRIDGE SHEET 20
OF 29
FILE NO. -



ROADWAY SECTION - STAGE A




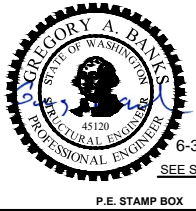
ROADWAY SECTION - STAGE B



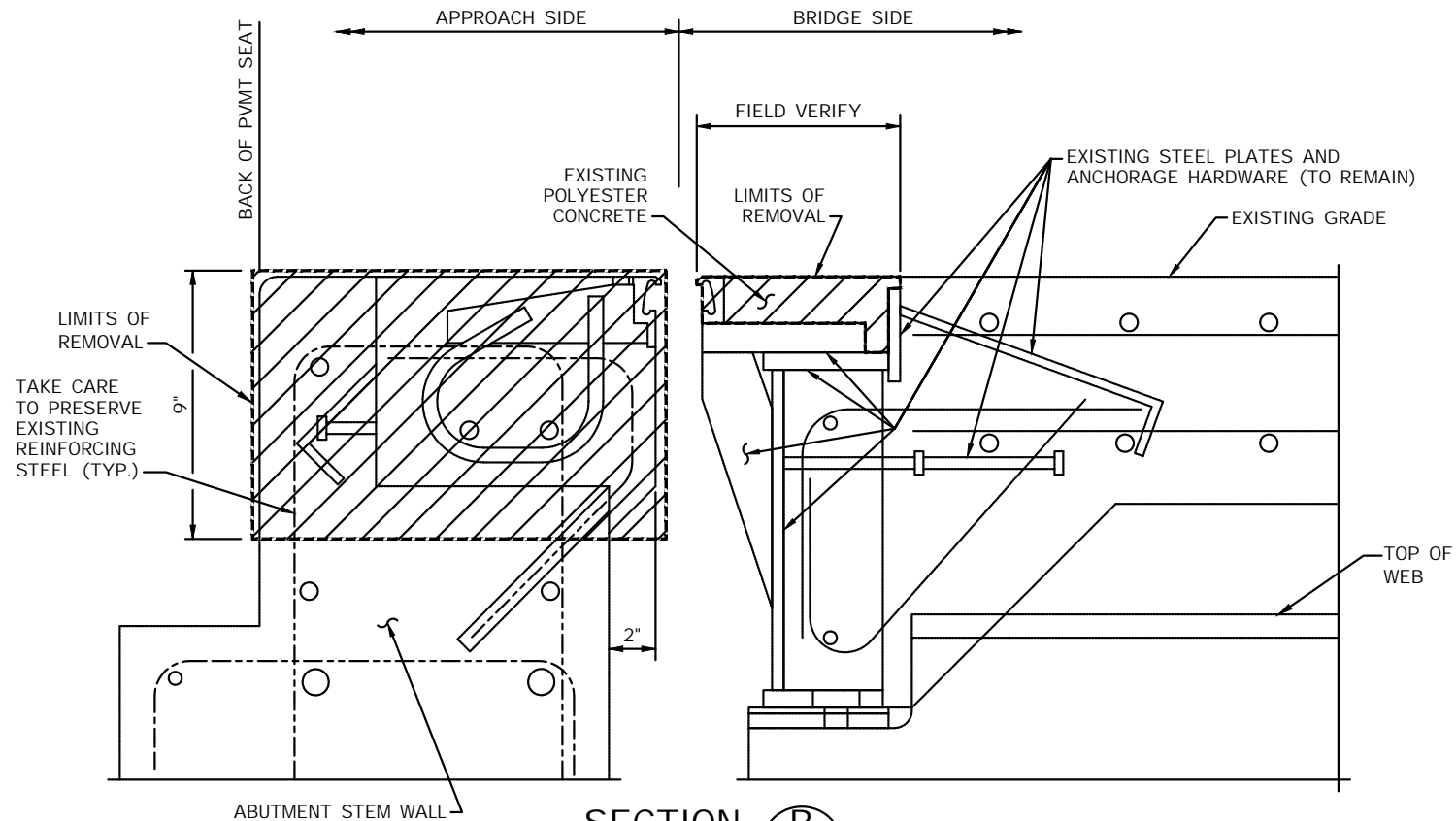
- NOTES**
1. ATTACH EACH THRIE BEAM END SECTION TO TEMPORARY CONCRETE BARRIER WITH $\times \varnothing$ HIGH STRENGTH BOLTS (STD. SPEC. 9-06.5(3)) INSTALLED THROUGH DRILLED HOLES IN TEMPORARY CONCRETE BARRIER.
 2. SLOTTED EXPANSION CONNECTIONS SHALL BE PLACED ON THE TRAFFIC FLOW'S TRAILING END ONLY. BOLTS AT SLOTTED EXPANSION CONNECTIONS SHALL BE DOUBLE NUTS AND HAND TIGHTENED ONLY TO ACCOMMODATE EXPANSION.
 3. SEE STD. PLAN K-80.32-00 FOR TEMPORARY CONCRETE BARRIER AND STD. PLAN K-80.35-01 FOR TYPE 1 ANCHOR DETAILS. PLACE ADDITIONAL ANCHOR ATTACHMENT BETWEEN THE EDGE OF BARRIER AND FIRST ANCHOR ATTACHMENT FOR EACH SIDE OF THE OPENING.
 4. CONTRACTOR HAS THE OPTION OF PLACING THE THRIE BEAM ON THE TRAFFIC SIDE ONLY FOR EACH STAGE.

SUGGESTED CONSTRUCTION SEQUENCE

1. INSTALL TEMPORARY TRAFFIC BARRIER FOR THE STAGE A WORK ZONE AND CONFIGURE TRAFFIC ACCORDINGLY.
2. WITHIN THE STAGE A WORK ZONE, REMOVE APPROACH PAVING AND EXISTING STRIP SEAL EXPANSION JOINT SYSTEM INCLUDING HEADERS AND CONCRETE AT TOP OF ABUTMENT STEM WALLS TO THE LIMITS SHOWN IN THE PLANS.
3. INSTALL STRIP SEAL STEEL EDGE BEAMS: PLACE AND CURE CONCRETE AT ABUTMENT STEM WALL, WELD BRIDGE SIDE EDGE BEAM IN PLACE.
4. SCARIFY BRIDGE DECK WITHIN WORK ZONE.
5. PREPARE DECK SURFACE, INSTALL, AND CURE MODIFIED CONCRETE OVERLAY.
6. INSTALL AND CURE POLYESTER OR ELASTOMERIC CONCRETE AT STRIP SEAL EXPANSION JOINT HEADERS.
7. FOLLOWING THE CURE OF POLYESTER OR ELASTOMERIC CONCRETE HEADERS AND OF THE MODIFIED CONCRETE OVERLAY AND THE INSTALLATION OF THE STRIP SEAL IN THE STAGE A WORK ZONE AND SUBSEQUENT INSPECTION AND ACCEPTANCE BY THE ENGINEER, REMOVE, RELOCATE, AND REINSTALL TEMPORARY CONCRETE TRAFFIC BARRIER FOR THE STAGE B WORK ZONE.
8. CONFIGURE TRAFFIC ACCORDINGLY AND THEN REPEAT STEPS 2, 3, 4, 5, AND 6 IN THE STAGE B WORK ZONE.
9. FOLLOWING THE CURE OF POLYESTER OR ELASTOMERIC CONCRETE HEADERS AND OF THE MODIFIED CONCRETE OVERLAY AND THE INSTALLATION OF THE STRIP SEAL IN THE STAGE B WORK ZONE AND SUBSEQUENT INSPECTION AND ACCEPTANCE BY THE ENGINEER, REMOVE THE TEMPORARY CONCRETE TRAFFIC BARRIER, REESTABLISH CHANNELIZATION, AND REOPEN ALL LANES OF TRAFFIC.
10. THE GLAND SHALL BE A SINGLE CONTINUOUS PIECE. CONTRACTOR HAS THE OPTION TO INSTALL THE GLAND AS A SINGLE OPERATION AFTER STAGE B COMPLETION OR ROLL UP THE UNINSTALLED STAGE B PORTION OF THE GLAND AFTER STAGE A WORK AND PIN IT UNDERNEATH THE ROADWAY UNTIL STAGE B HAS BEEN COMPLETED. CARE SHALL BE EXERCISED TO PREVENT DAMAGE TO THE GLAND.

FILE NAME BR_5-104W.DWG				REGION NO. 10	STATE WASH	 	SEE SHEET CT1 DATE	SEE SHEET CT1 DATE	P.E. STAMP BOX	P.E. STAMP BOX	I-5 DIKE ACCESS ROAD BRIDGE BRIDGE DECK AND EXPANSION JOINTS I-5 OVER BNSF AND DIKE ROAD BR NO. 5/104W	PLAN REF NO B2
BRIDGE DES. ENG. A. LELAND												
BRIDGE PROJ. ENG. N. RODDA												
SUPERVISOR -												
DESIGNED BY M. BARBER												
CHECKED BY K. HJORTESET						CONTRACT NO.					SUGGESTED CONSTRUCTION SEQUENCE	SHEET 13 OF 30 SHEETS
ENTERED BY P. LAVOCHIN												
PRELIM. PLAN BY -												
ARCH. / SPEC. -												
REVISION				DATE	BY	PLOT DATE: 6/30/23 PLOT TIME: 11:13 AM PLOTTED BY: USPL67544						

SR I-5 BRIDGE SHEET 21 OF 29 FILE NO. -





SECTION **B**
EXISTING CONDITION **B1**

NOTE: EXPANSION JOINT WORK SHOWN IN THIS VIEW. SEE SHEETS B5 AND B6 FOR DECK REHABILITATION WORK

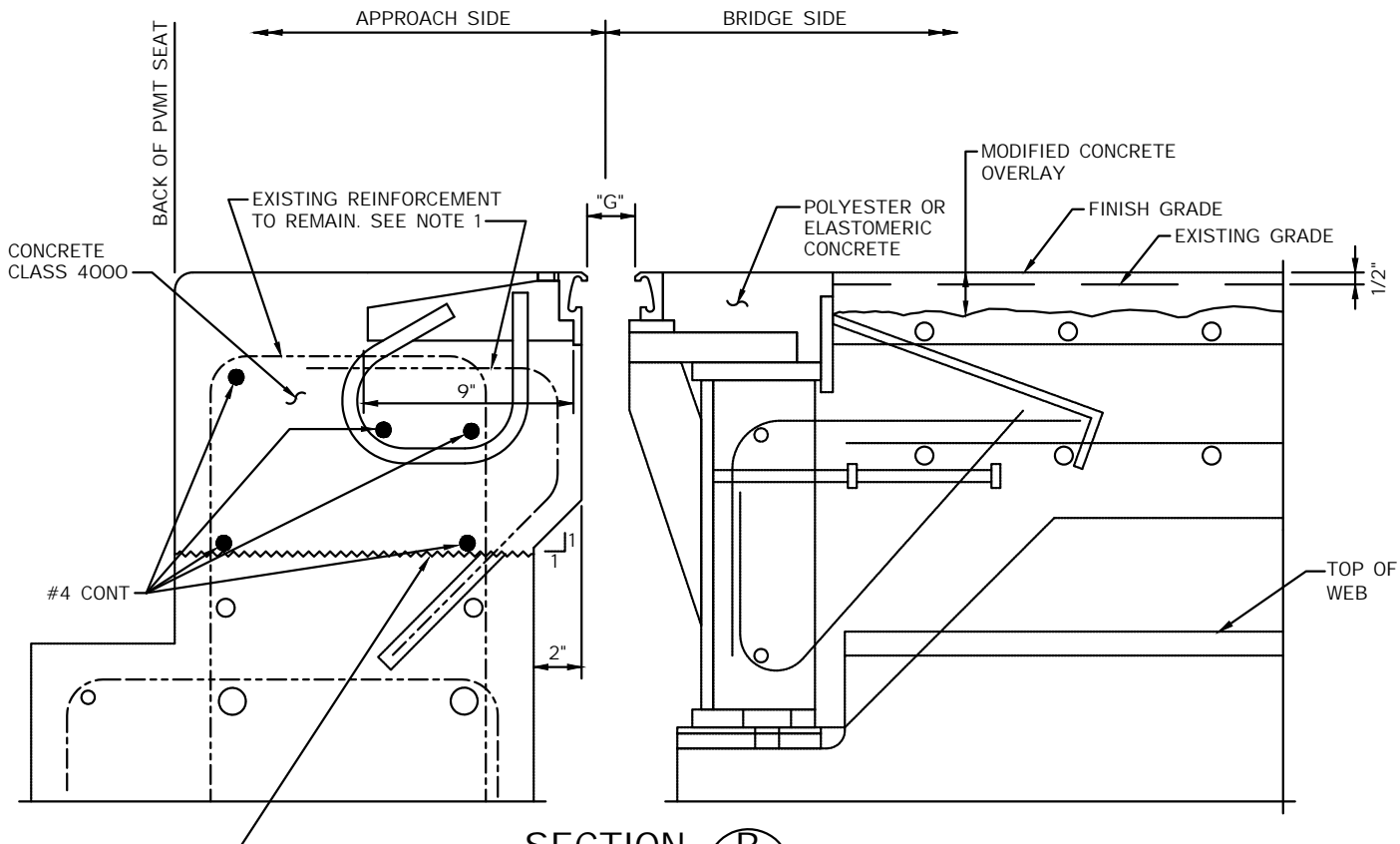
4" MOTION RANGE

MANUFACTURER	ITEM NAME	OPENING "G" NORMAL TO JT.		MIN. INSTALLATION WIDTH NORMAL TO JOINT	OPENING "G" NORMAL TO JT.		
		MIN.	MAX.		@40° F	@64° F	@80° F
D.S. BROWN	STEEFLEX STRIP SEAL EJS A2R-400	1/2"	4 1/2"	1 1/2"	2 7/8"	2 1/4"	1 7/8"
WATSON BOWMAN ACME	WABO STRIP SEAL SE-400	0"	4"	1 1/2"	2 5/8"	2"	1 5/8"
R. J. WATSON, INC.	R. J. STRIP SEAL 400	0"	4"	1 1/2"	2 5/8"	2"	1 5/8"

STEEL SHAPE TYPES

MANUFACTURER	ITEM NAME						
		TYPE	S	T	TYPE	V	W
D.S. BROWN	STEEFLEX RAIL	SSCM2*	1 1/4"	3 3/4"	SSA2	1 1/4"	2"
WATSON BOWMAN ACME	WABO STRIP SEAL	R	1 1/4"	3 1/4"	A	1 1/4"	2"
R. J. WATSON, INC.	RJ STRIP SEAL	RJM	2 3/4"	3 1/4"	RJA	1 1/4"	2"

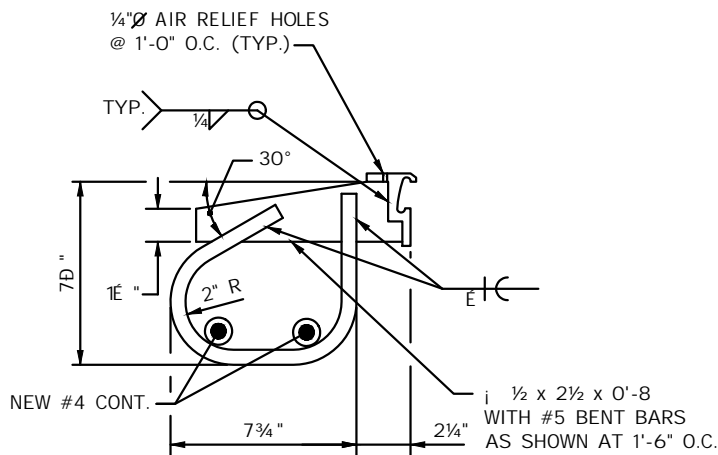
* TRIM VERTICAL LEG OF SSCM2 SHAPE FOR USE IN TRAFFIC BARRIER



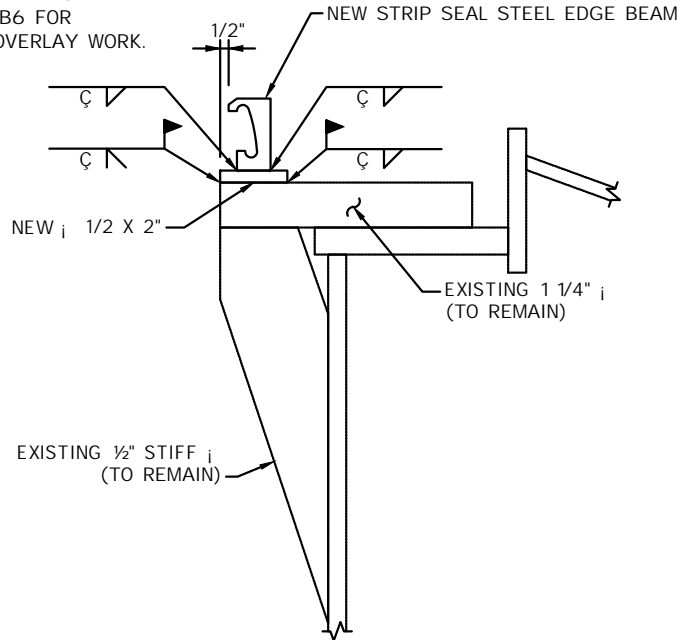
SECTION **B**
MODIFIED CONDITION **B1**

NOTE: EXPANSION JOINT RESTORATION SHOWN IN THIS VIEW. SEE SHEETS B5 AND B6 FOR MODIFIED CONCRETE OVERLAY WORK.

NOTE 1:
ANY EXISTING REINFORCEMENT TO REMAIN THAT IS DAMAGED DURING DEMOLITION SHALL BE REPLACED IN KIND. REPLACEMENT REINFORCEMENT SHALL BE DRILLED IN AND BONDED USING APPROVED EPOXY-RESIN BONDING AGENT, EMBEDDED 8 INCHES.



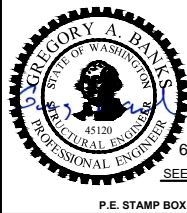
STRIP SEAL ANCHORAGE
AT CONCRETE APPROACH ENDS



STRIP SEAL ANCHORAGE
AT STEEL GIRDER ENDS

FILE NAME	BR_5-104W.DWG
BRIDGE DES. ENG.	A. LELAND
BRIDGE PROJ. ENG.	N. RODDA
SUPERVISOR	-
DESIGNED BY	M. BARBER
CHECKED BY	K. HJORTSET
ENTERED BY	P. LAVOCHIN
PRELIM. PLAN BY	-
ARCH. / SPEC.	-
REVISION	
DATE	BY

REGION NO.	STATE
10	WASH
JOB NUMBER	
25x302	
CONTRACT NO.	

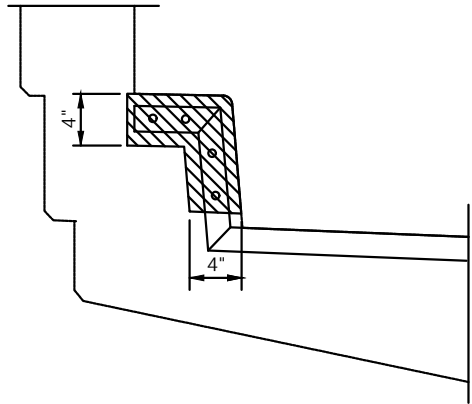


SEE SHEET CT1
DATE

SEE SHEET CT1
DATE

I-5 DIKE ACCESS ROAD BRIDGE BRIDGE DECK AND EXPANSION JOINTS I-5 OVER BNSF AND DIKE ROAD BR NO. 5/104W
EXPANSION JOINT DETAILS 1 OF 2

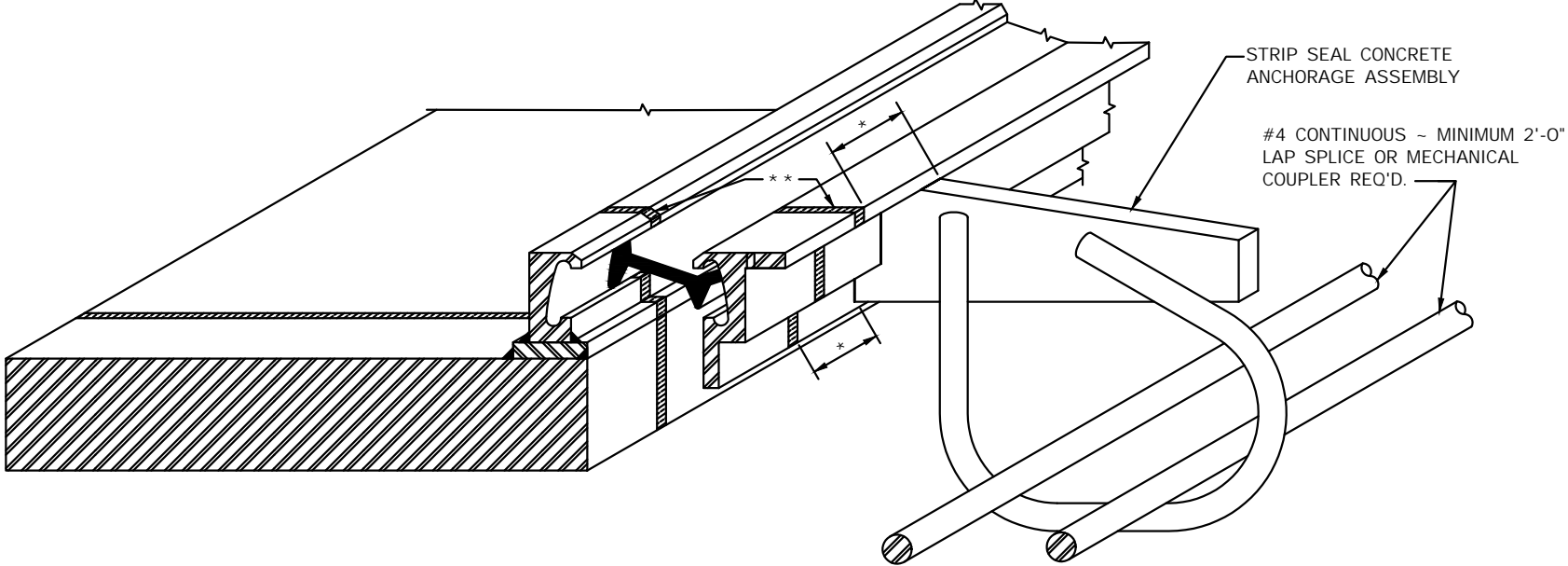
PLAN REF NO	B3
SHEET 14 OF 30 SHEETS	



CURB DETAIL

C
B1

EXISTING CONDITION
TYPICAL @ 2 LOCATIONS
APPROACH SIDE AT
PIERS 1 & 4



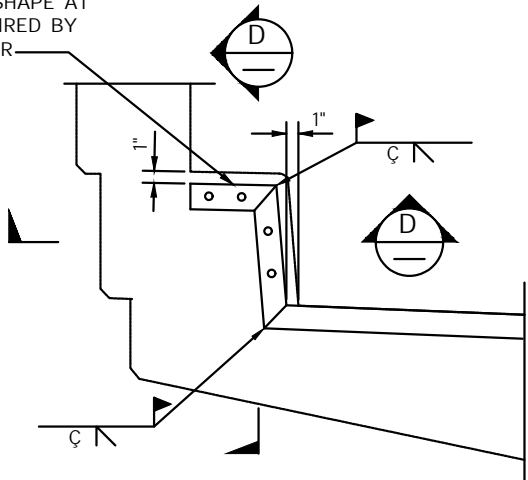
WELDED FIELD SPLICE

WELDED FIELD SPLICE LOCATIONS SHALL BE COORDINATED
WITH CONSTRUCTION STAGING REQUIREMENTS AND IS
SUBJECT TO THE APPROVAL OF THE ENGINEER

* 4" MAXIMUM DISTANCE FROM SPLICE TO
STRIP SEAL CONCRETE ANCHORAGE ASSEMBLY

** WELD OF STEEL SHAPE SHALL BE IN
ACCORDANCE WITH THE APPROVED
SHOP DRAWINGS,

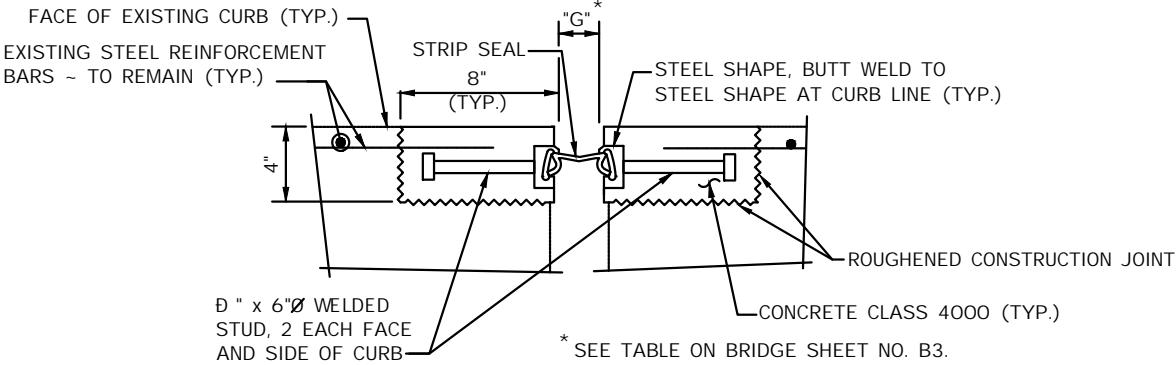
SPLIT STEEL SHAPE AT
CURB IF REQUIRED BY
MANUFACTURER



CURB DETAIL

C
B1

MODIFIED CONDITION
TYPICAL @ 2 LOCATIONS
APPROACH SIDE AT
PIERS 1 & 4



SECTION

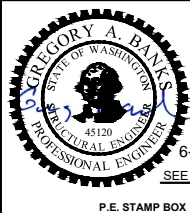
D

MODIFIED CONDITION

SR I-5
BRIDGE SHEET 22
OF 29
FILE NO. -

FILE NAME				REGION NO.	STATE
BR_5-104W.DWG				10	WASH
BRIDGE DES. ENG. A. LELAND				JOB NUMBER	
BRIDGE PROJ. ENG. N. RODDA				25x302	
SUPERVISOR -				CONTRACT NO.	
DESIGNED BY M. BARBER					
CHECKED BY K. HJORTESET					
ENTERED BY P. LAVOCHIN					
PRELIM. PLAN BY -					
ARCH. / SPEC. -					
REVISION			DATE	BY	

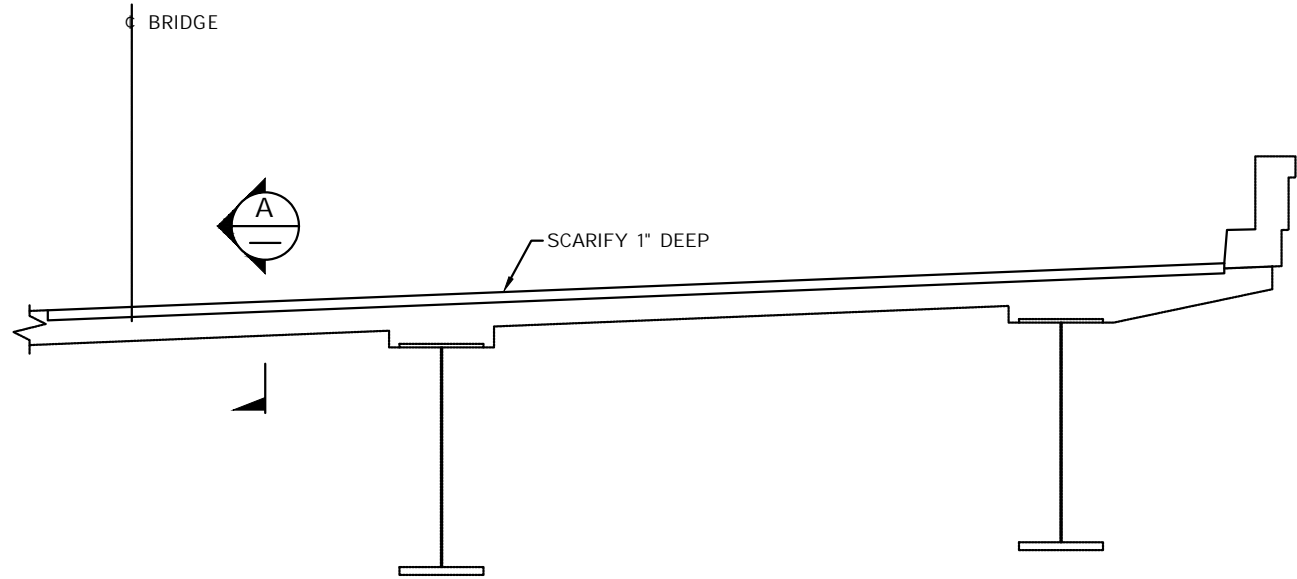
REGION NO.	STATE
10	WASH
JOB NUMBER	
25x302	
CONTRACT NO.	



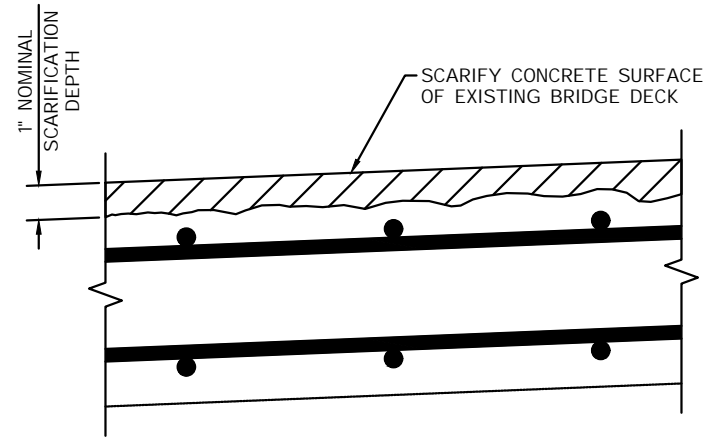
SEE SHEET CT1	DATE

I-5 DIKE ACCESS ROAD BRIDGE BRIDGE DECK AND EXPANSION JOINTS I-5 OVER BNSF AND DIKE ROAD BR NO. 5/104W		PLAN REF NO
		B4
EXPANSION JOINT DETAILS 2 OF 2		SHEET 15 OF 30 SHEETS

SR 1-5 BRIDGE SHEET 23 OF 29 FILE NO. -

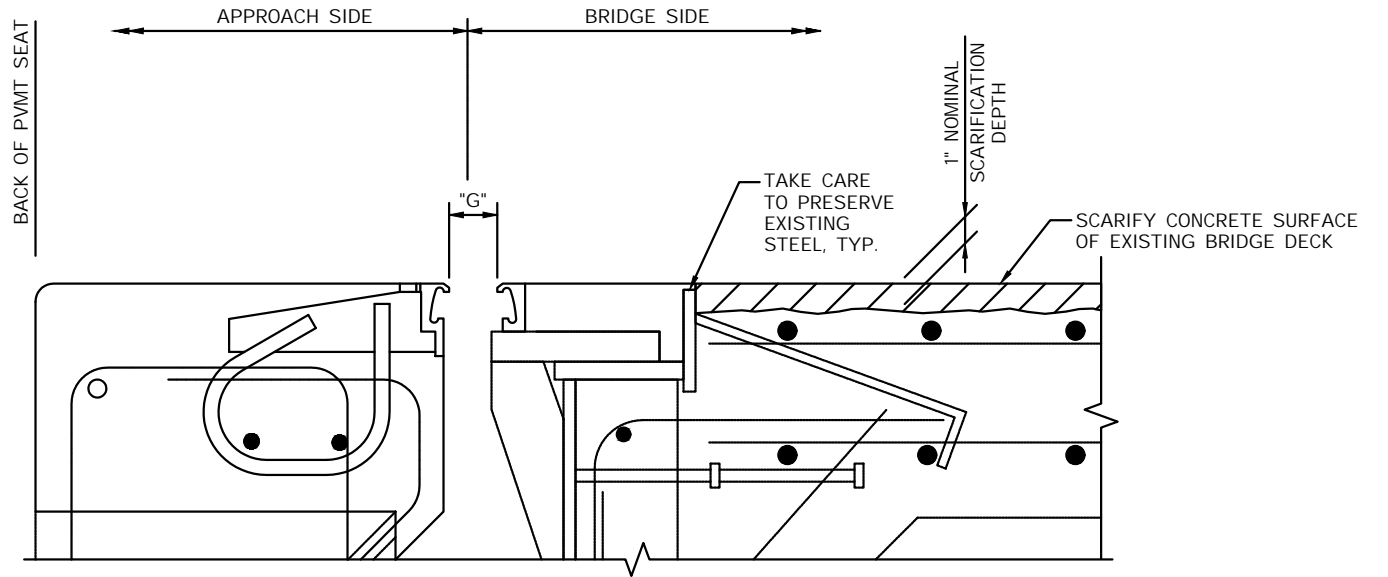
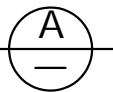


ROADWAY SECTION



SECTION

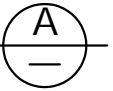
1" TYPICAL SCARIFICATION



SECTION

SCARIFICATION AT
EXPANSION JOINTS

NOTE: MODIFIED CONCRETE
OVERLAY WORK SHOWN IN
THIS VIEW. SEE SHEET B3
FOR EXPANSION JOINT WORK



FILE NAME BR_5-104W.DWG				REGION NO.	STATE
BRIDGE DES. ENG.	A. LELAND			10	WASH
BRIDGE PROJ. ENG.	N. RODDA				
SUPERVISOR	-			JOB NUMBER	
DESIGNED BY	M. BARBER			25x302	
CHECKED BY	K. HJORTESET				
ENTERED BY	P. LAVOCHIN			CONTRACT NO.	
PRELIM. PLAN BY	-				
ARCH. / SPEC.	-				
		REVISION	DATE	BY	

REGION NO.	STATE
10	WASH
JOB NUMBER	
25x302	
CONTRACT NO.	



P.E. STAMP BOX

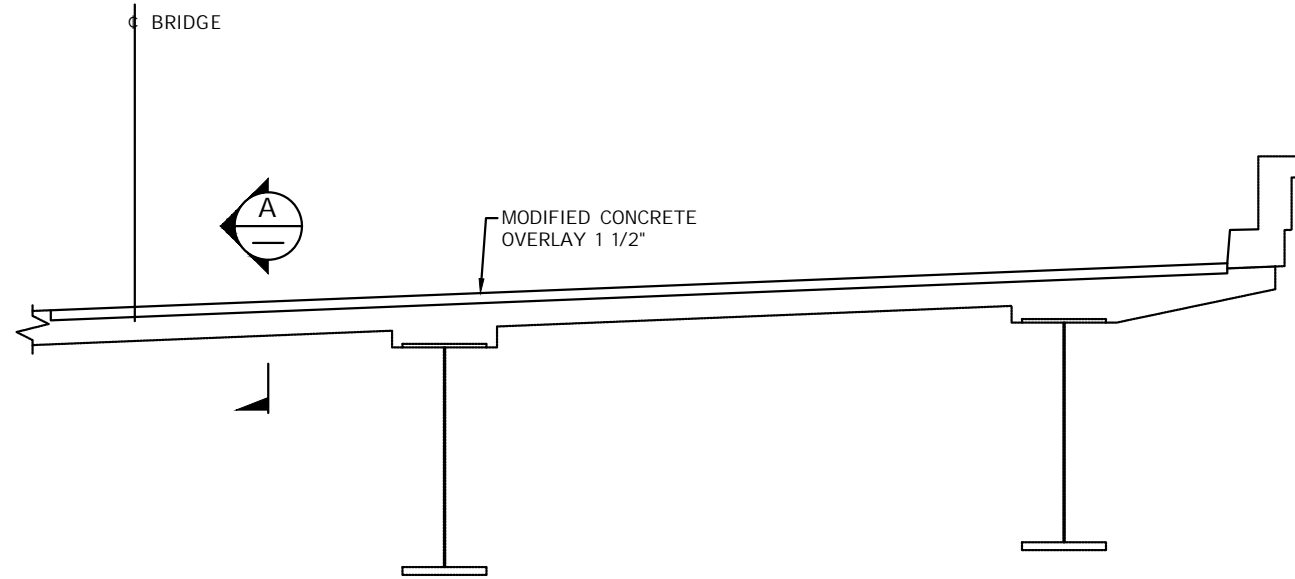
SEE SHEET CT1
DATE

P.E. STAMP BOX

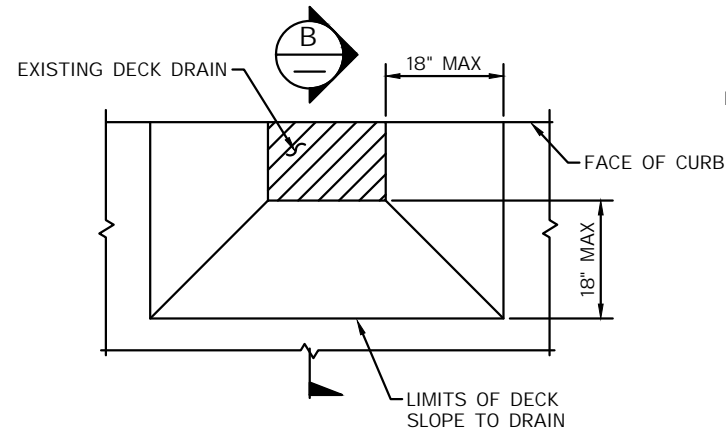
I-5
DIKE ACCESS ROAD BRIDGE
BRIDGE DECK AND EXPANSION JOINTS
I-5 OVER BNSF AND DIKE ROAD BR NO. 5/104W
OVERLAY REPLACEMENT
SCARIFICATION

PLAN REF NO
B5
SHEET 16 OF 30 SHEETS

SR I-5 BRIDGE SHEET 24 OF 29 FILE NO. -

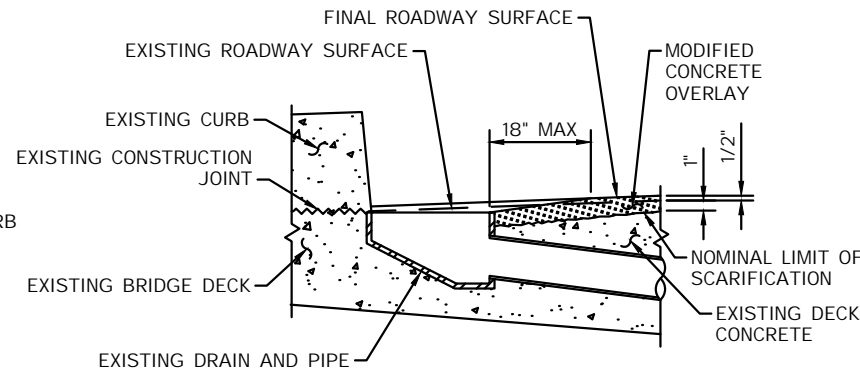


ROADWAY SECTION



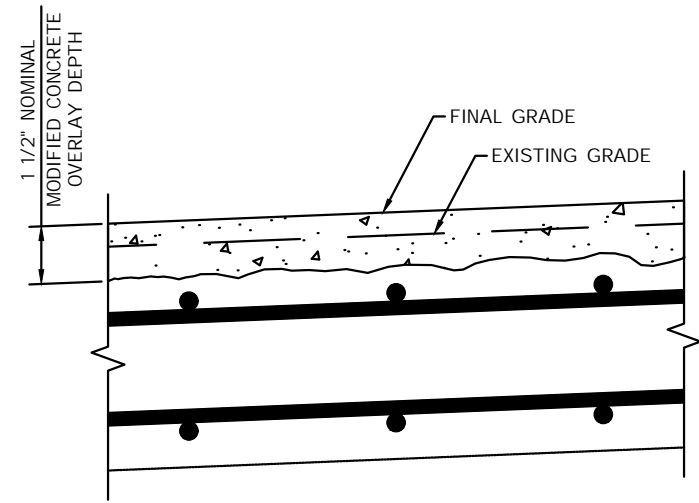
PLAN VIEW AT DECK DRAINS

NOTE: FINE GRADE MODIFIED CONCRETE OVERLAY WITHIN LIMITS SHOWN ADJACENT TO EXISTING DECK DRAINS.



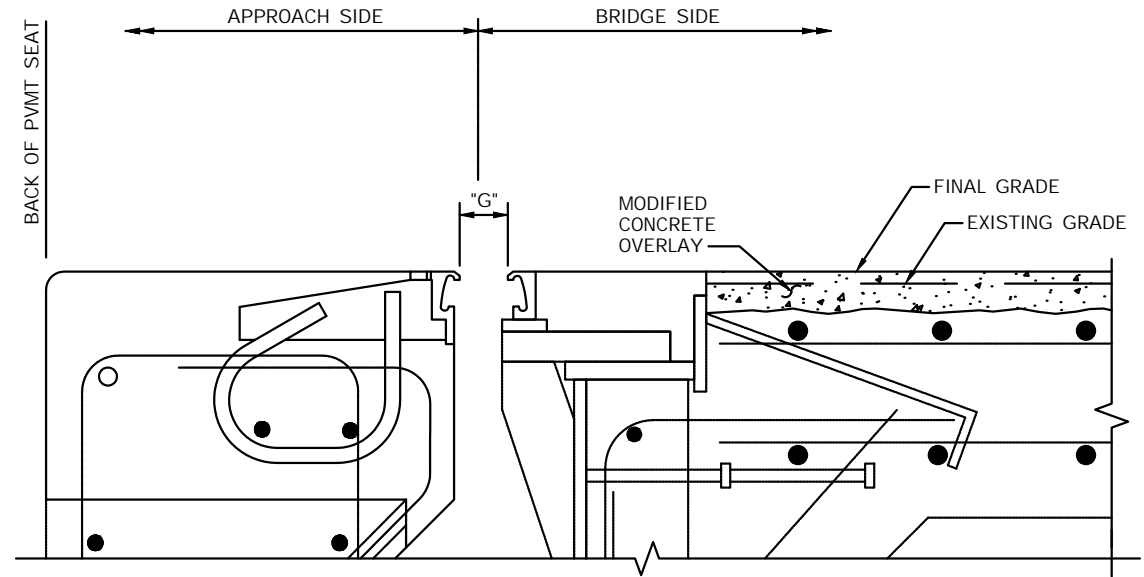
SECTION B

NTS



SECTION A

TYPICAL MODIFIED CONCRETE OVERLAY



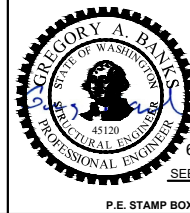
SECTION A

MODIFIED CONCRETE OVERLAY AT EXPANSION JOINTS

NOTE: MODIFIED CONCRETE OVERLAY WORK SHOWN IN THIS VIEW. SEE SHEET B3 FOR EXPANSION JOINT WORK

FILE NAME				REGION NO.	STATE
BR_5-104W.DWG				10	WASH
BRIDGE DES. ENG. A. LELAND				JOB NUMBER	
BRIDGE PROJ. ENG. N. RODDA				25x302	
SUPERVISOR -				CONTRACT NO.	
DESIGNED BY M. BARBER					
CHECKED BY K. HJORTESET					
ENTERED BY P. LAVOCHIN					
PRELIM. PLAN BY -					
ARCH. / SPEC. -					
REVISION			DATE	BY	

REGION NO.	STATE
10	WASH
JOB NUMBER	
25x302	
CONTRACT NO.	



SEE SHEET CT1
DATE

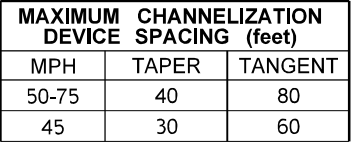
P.E. STAMP BOX

SEE SHEET CT1
DATE

P.E. STAMP BOX

I-5 DIKE ACCESS ROAD BRIDGE BRIDGE DECK AND EXPANSION JOINTS I-5 OVER BNSF AND DIKE ROAD BR NO. 5/104W	
MODIFIED CONCRETE OVERLAY INSTALLATION AND DETAILS	


PLAN REF NO
B6
SHEET 17 OF 30 SHEETS



9-MILE SMART WORK ZONE SYSTEM FOR SB I-5/DIKE ACCESS ROAD BRIDGE (#05/104W)

MILES. FIC		SYMBOL		TRIGGER SPEED (mph)		TRAFFIC CONDITION																			
		FF		35+		Free Flow																			
		SL		<35		Slowed																			
QUEUE LOCATION (miles)		TRAFFIC SENSORS								PCMS 8		PCMS 7		PCMS 6		PCMS 5		PCMS 4		PCMS 3		PCMS 2		PCMS 1	
		H	G	F	E	D	C	B	A	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
		TRAFFIC CONDITION								2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC	
None		FF	FF	FF	FF	FF	FF	FF		■ ■ ■ ■	(Blank)	■ ■ ■ ■	(Blank)	■ ■ ■ ■	(Blank)	■ ■ ■ ■	(Blank)	■ ■ ■ ■	(Blank)	■ ■ ■ ■	(Blank)	LEFT LANE CLOSED	1 MILE AHEAD	■ ■ ■ ■	(Blank)
0.5 TO 1.4		FF	FF	FF	FF	FF	FF	SL		■ ■ ■ ■	(Blank)	■ ■ ■ ■	(Blank)	■ ■ ■ ■	(Blank)	■ ■ ■ ■	(Blank)	SINGLE LANE CLOSURE	3 MILES AHEAD	TRAFFIC BACKUPS PRESENT	## MINUTE DELAY	SLOW OR STOPPED TRAFFIC	NEXT 1 MILE	■ ■ ■ ■	(Blank)
1.41 TO 2.4		FF	FF	FF	FF	FF	SL	SL		■ ■ ■ ■	(Blank)	■ ■ ■ ■	(Blank)	■ ■ ■ ■	(Blank)	SINGLE LANE CLOSURE	4.5 MILES AHEAD	TRAFFIC BACKUPS PRESENT	## MINUTE DELAY	SLOW OR STOPPED TRAFFIC	NEXT 2 MILES	ZIPPER MERGE AHEAD	USE LEFT LANE TOO	ZIPPER MERGE HERE	TAKE TURNS
2.41 TO 3.4		FF	FF	FF	FF	SL	SL	SL		■ ■ ■ ■	(Blank)	■ ■ ■ ■	(Blank)	SINGLE LANE CLOSURE	6 MILES AHEAD	TRAFFIC BACKUPS PRESENT	## MINUTE DELAY	SLOW OR STOPPED TRAFFIC	NEXT 3 MILES	2 MILES TO MERGE POINT	USE ALL 3 LANES	ZIPPER MERGE AHEAD	USE LEFT LANE TOO	ZIPPER MERGE HERE	TAKE TURNS
3.41 TO 4.9		FF	FF	FF	SL	SL	SL	SL		■ ■ ■ ■	(Blank)	SINGLE LANE CLOSURE	7.5 MILES AHEAD	TRAFFIC BACKUPS PRESENT	## MINUTE DELAY	SLOW OR STOPPED TRAFFIC	NEXT 4.5 MILES	3 MILES TO MERGE POINT	USE ALL 3 LANES	2 MILES TO MERGE POINT	USE ALL 3 LANES	ZIPPER MERGE AHEAD	USE LEFT LANE TOO	ZIPPER MERGE HERE	TAKE TURNS
4.91 TO 6.4		FF	FF	SL	SL	SL	SL	SL		SINGLE LANE CLOSURE	9 MILES AHEAD	TRAFFIC BACKUPS PRESENT	## MINUTE DELAY	SLOW OR STOPPED TRAFFIC	NEXT 6 MILES	4.5 MILES TO MERGE POINT	USE ALL 3 LANES	3 MILES TO MERGE POINT	USE ALL 3 LANES	2 MILES TO MERGE POINT	USE ALL 3 LANES	ZIPPER MERGE AHEAD	USE LEFT LANE TOO	ZIPPER MERGE HERE	TAKE TURNS
6.41 TO 7.9		FF	SL	SL	SL	SL	SL	SL		1 LANE CLOSURE 9 MILES	## MINUTE DELAY	SLOW OR STOPPED TRAFFIC	NEXT 7.5 MILES	6 MILES TO MERGE POINT	USE ALL 3 LANES	4.5 MILES TO MERGE POINT	USE ALL 3 LANES	3 MILES TO MERGE POINT	USE ALL 3 LANES	2 MILES TO MERGE POINT	USE ALL 3 LANES	ZIPPER MERGE AHEAD	USE LEFT LANE TOO	ZIPPER MERGE HERE	TAKE TURNS
7.91+		SL	SL	SL	SL	SL	SL	SL		SLOW OR STOPPED TRAFFIC	NEXT 9 MILES	1 LANE CLOSED 7.5 MILES	## MINUTE DELAY	6 MILES TO MERGE POINT	USE ALL 3 LANES	4.5 MILES TO MERGE POINT	USE ALL 3 LANES	3 MILES TO MERGE POINT	USE ALL 3 LANES	2 MILES TO MERGE POINT	USE ALL 3 LANES	ZIPPER MERGE AHEAD	USE LEFT LANE TOO	ZIPPER MERGE HERE	TAKE TURNS

NOT TO SCALE

FILE NAME G:\444304\04 - Design\02 - Design Projects\I00527K - I-5 Dike Access Road Bridge - Bridge Deck and Expansion Joints\20-CADD-Plans\20-11 PS&E Sheets\XL6568_PLAN SHEETS.dgn										<div><p>Washington State Department of Transportation</p></div>		I-5		Plot 11
TIME 5:34:40 PM						REGION NO.		STATE				FED.AID PROJ.NO.		PLAN REF NO
DATE 6/21/2023						10		WASH				0051(321)		TC2
PLOTTED BY MinnicN						JOB NUMBER								SHEET 19 OF 30 SHEETS
DESIGNED BY N. MINNICK						25x302								
ENTERED BY						CONTRACT NO.		LOCATION NO.						
CHECKED BY								XL6568						
PROJ. ENGR. P. REYES										DATE		DATE		
REGIONAL ADM. C. FRANCIS				REVISION		DATE		BY		P.E. STAMP BOX		P.E. STAMP BOX		

SMART WORK ZONE SYSTEM - STAGE B	
----------------------------------	--

=====

=====

EXISTING EDGE LINE

EXISTING MEDIAN EDGE LINE

EXISTING OUTSIDE EDGE LINE

EXISTING LANE LINE

CURB OF BRIDGE

TEMPORARY BARRIER

TEMPORARY LANE LINES

GUARDRAIL

A

TRAFFIC SENSOR

CLASS A TRIPOD-MOUNTED SIGN LOCATION (5' MIN HEIGHT)

PAN-TILT-ZOOM CAMERA

PORTABLE CHANGEABLE MESSAGE SIGN

TRAFFIC SAFETY DRUM

CLASS A SIGN LOCATION

SMART SEQUENTIAL ARROW SIGN

PORTABLE TRAVEL TIME READER

RADAR SPEED DISPLAY SIGN (RSDS)

MAXIMUM CHANNELIZATION DEVICE

SPACING

(feet)

MPH

TAPER

TANGENT

50-75

40

80

45

30

60

NOT TO SCALE

FILE NAMEG:\444304\04 - Design\02 - Design Projects\ID00527K - I-5 Dike Access Road Bridge - Bridge Deck and Expansion Joints\20-CADD-Plans\20-11 PS&E Sheets\XL6568_PLAN SHEETS.dgn										Plot 2			
TIME5:33:33 PM										PLAN REF NO			
DATE6/21/2023										TC3			
PLOTTED BYMinnicN										SHEET 20 OF 30 SHEETS			
DESIGNED BYN.MINNICK													
ENTERED BY													
CHECKED BY													
PROJ. ENGR. P. REYES													
REGIONAL ADM. C. FRANCIS		REVISION		DATE		BY							
				REGION NO.	STATE	FED.AID PROJ.NO.							
				10	WASH	0051(321)							
				JOB NUMBER									
				25x302									
				CONTRACT NO.		LOCATION NO.							
						XL6568							

EXISTING EDGE LINE

EXISTING MEDIAN EDGE LINE

EXISTING OUTSIDE EDGE LINE

EXISTING LANE LINE

CURB OF BRIDGE

TEMPORARY BARRIER

TEMPORARY LANE LINES

GUARDRAIL

A

TRAFFIC SENSOR

CLASS A TRIPOD-MOUNTED SIGN LOCATION (5' MIN HEIGHT)

PAN-TILT-ZOOM CAMERA

PCMS1

PORTABLE CHANGEABLE MESSAGE SIGN

TRAFFIC SAFETY DRUM

CLASS A SIGN LOCATION

SMART SEQUENTIAL ARROW SIGN

TTR1

PORTABLE TRAVEL TIME READER

RADAR SPEED DISPLAY SIGN (RSDS)

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50-75	40	80
45	30	60

NOTES:

- THIS PLAN IS USED IN CONJUNCTION WITH APPLICABLE 2-LANE FREEWAY SINGLE RIGHT LANE CLOSURE TRAFFIC CONTROL PLAN (WITH PCMSs IN ADVANCE OF LANE CLOSURE TAPER REMOVED).
- SEE SMART WORK ZONE SYSTEM (SWZS) SPECIAL PROVISION OR RFP FOR DETAILS.
- MODIFICATIONS TO PCMS MESSAGES SHALL BE ACCEPTED BY THE ENGINEER. "##" ARE CHANGEABLE VALUES BASED ON REAL-TIME TRAVEL DELAY TIMES.
- ADJUST SWZS COMPONENTS TO AVOID CONFLICTS WITH SEQUENTIAL ARROW SIGNS OR OTHER TRAFFIC CONTROL DEVICES, NARROW SHOULDERS, AND RAMPS.
- LOCATE PCMSs PER STANDARD SPECIFICATION 1-10.3(3)C. PCMS MAY BE PLACED ON OPPOSITE SHOULDER BUT AVOID RAMP GORES. WHEN LOCATED BEHIND BARRIER/GUARDRAIL OR WITHIN CLOSURE, TRANSVERSE TRAFFIC DRUMS OPTIONAL.
- MINITURE PCMS (~6' WIDE, 12+ INCH CHARACTERS) ALLOWED FOR PCMS1.
- IN LIEU OF TRAVEL TIME READERS, ALTERNATIVE METHODS (SUCH AS USING TRAFFIC SENSOR SPEED DATA) IS ACCEPTABLE WHEN ACCURATE WITHIN 5+/- MINUTES.
- IF SYSTEM FAILS SEE "SMART WORK ZONE SYSTEM FAILURE PROTOCOL" PROVISION.
- IF TRAFFIC QUEUES REACH 8 MILES, PLACE ADDITIONAL PCMS AT 9.5 MILES. RELOCATE TO REMAIN 0.5+/- MILE IN ADVANCE OF QUEUE. TRUCK-MOUNTED PCMS WITH 10+ INCH CHARACTERS ACCEPTABLE. TRANSVERSE TRAFFIC SAFETY DRUMS OPTIONAL. REMOVE PCMS WHEN DISSIPATING QUEUES ARE LESS THAN 8 MILES. PCMS MESSAGE: TRAFFIC BACKUPS PRESENT / WATCH FOR SLOW TRAFFIC
- TEMPORARY PAVEMENT MARKINGS SHALL BE ONE COAT OF PAINT WITH GLASS BEADS. TEMPORARY TAPE NOT ALLOWED FOR TEMPORARY MARKINGS

NOT TO SCALE

FILE NAMEG:\444304\04 - Design\02 - Design Projects\ID00527K - I-5 Dike Access Road Bridge - Bridge Deck and Expansion Joints\20-CADD-Plans\20-11 PS&E Sheets\XL6568_PLAN SHEETS.dgn										Plot 3						
TIME5:33:48 PM					REGION NO.10	STATEWASH	FED.AID PROJ.NO.0051(321)			PLAN REF NO.SA1						
DATE6/21/2023					JOB NUMBER25x302					SHEET 21 OF 30 SHEETS						
PLOTTED BYMinnicN					CONTRACT NO.	LOCATION NO.XL6568			<div><div></div><div>Washington State Department of Transportation</div></div> <div>I-5 DIKE ACCESS ROAD BRIDGE BRIDGE DECK AND EXPANSION JOINTS STAGING PLANS - STAGE A</div>							
DESIGNED BYN. MINNICK																
ENTERED BY																
CHECKED BY																
PROJ. ENGR.P. REYES																
REGIONAL ADM.C. FRANCIS	REVISION	DATE	BY													

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EXISTING EDGE LINE

EXISTING MEDIAN EDGE LINE

EXISTING OUTSIDE EDGE LINE

EXISTING LANE LINE

CURB OF BRIDGE

TEMPORARY BARRIER

TEMPORARY LANE LINES

GUARDRAIL

A

TRAFFIC SENSOR

CLASS A TRIPOD-MOUNTED SIGN LOCATION (5' MIN HEIGHT)

PAN-TILT-ZOOM CAMERA

PORTABLE CHANGEABLE MESSAGE SIGN

TRAFFIC SAFETY DRUM

CLASS A SIGN LOCATION

SMART SEQUENTIAL ARROW SIGN

PORTABLE TRAVEL TIME READER

RADAR SPEED DISPLAY SIGN (RSDS)

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50-75	40	80
45	30	60

NOT TO SCALE

FILE NAMEG:\444304\04 - Design\02 - Design Projects\ID00527K - I-5 Dike Access Road Bridge - Bridge Deck and Expansion Joints\20-CADD-Plans\20-11 PS&E Sheets\XL6568_PLAN SHEETS.dgn										Plot 7	
TIME5:34:32 PM						REGION NO.10		STATEWASH		PLAN REF NOSA5	
DATE6/21/2023											
PLOTTED BYMinnicN											
DESIGNED BYN. MINNICK						JOB NUMBER25x302					
ENTERED BY											
CHECKED BY											
PROJ. ENGR. P. REYES											
REGIONAL ADM. C. FRANCIS										SHEET 25 OF 30 SHEETS	
		REVISION		DATE		BY					










25x302_Volume2_Plans_Final_Revised_7-3[6724]

Final Audit Report

2023-07-05

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